The next generation in personal computing

IBM Personal System/2 Model 80

Closing the gap between micros and minis

Model 80 is the most powerful model in the IBM Personal System/2™ family. Its Micro Channel™ architecture, 80386 microprocessor and 80-nanosecond memory make it so efficient, so capable, it's almost like having a minicomputer at your desk.

Used alone or connected in a large information system, Model 80 provides ample power to support high-function applications—including multitasking and multiuser applications—in business, science, engineering, and more.

Here are some ways to put Model 80 to work for you.

Power up your business. Model 80 offers large processing and storage capabilities to meet the needs of even the most demanding power users. It can be used, for example, to support:

- High-function business productivity applications
- Advanced graphics applications
- Sophisticated spreadsheets
- Large data base applications
- Complex financial and accounting applications

When used with the new IBM Operating System/2,™ Model 80 will support several applications at once. The new operating system provides a way to address up to 16MB of memory.

Make all the right connections. Big-system architecture and advanced functions equip Model 80 to take on an important role in resource-sharing and connected environments. In a network, this model can share files and programs, provide high-speed print queue services, even support applications for multiple users. And Model 80's capacity for high-speed data transfer makes this system a powerful network bridge or gateway to a host.

Highlights

IBM Personal System/2 Model 80 is available with 1MB or 2MB of user memory and a 44MB, 70MB, 115MB or 314MB fixed disk. Whatever levels of memory and storage you choose, you'll benefit from high levels of performance that can make a difference in your organization's efficiency.

New Micro Channel architecture provides wide data paths for fast calculations and communications. It accounts for this system's balanced performance—even when supporting multiple tasks and input/output operations.

High-speed 80386 microprocessor handles data 32 bits at a time to help you cut large processing jobs down to size. For even greater calculation speed, an optional IBM 80387 Math Co-Processor can be installed.

1MB or 2MB 80-nanosecond user memory —1MB expandable to 2MB (Model 80-041) or 2MB expandable to 4MB (Models 80-111 and 80-311[1]) on the system board and up to 16MB with memory expansion options—gives you plenty of speed and workspace. In Models 80-111 and 80-311, memory expansion options use one-megabit chips.

Built-in Video Graphics Array (VGA) capabilities supply videolike clarity and detail for graphics—plus text that's al-

most as sharp and clear as a printed page. And up to 256 brilliant colors (from a palette of over 256,000) and 64 shades of gray provide a wide spectrum for contrast and variety. Colors automatically convert to gray on a monochrome display. VGA also supports CGA, EGA and MCGA graphics and text.

Integrated functions improve reliability and pack more capabilities into fewer components. The result is a streamlined system that comes ready with built-in support for a display, printer, keyboard, even for an optional modem and mouse.

44MB, 70MB, 115MB or 314MB fixed disks provide ready-access storage for extensive information. You'll be able to store complex programs, large files, even elaborate data bases.

1.44MB diskette drive lets you easily load files and programs stored on the *3.5-inch diskettes* used with Model 80. Compact and durable, each high-density diskette can hold as many as 720 pages[2] of information.

Seven expansion slots make it easy to add more functions to Model 80 to keep pace with changing needs.

Switchless setup means all you do is connect your system and begin. Convenient ports and plugs keep things simple.

Four superior analog displays offer a range of choice in price and performance. Whether you need crisp text or vivid, detailed color graphics, you'll find the right display to suit your work and your budget.

Wide range of communications options opens the door to networking, multiple host communications, and public information services.

What you get

IBM Personal System/2 Model 80 is packaged in two cartons, one containing the system unit. The other contains:

- One-page customer setup sheet
- System unit power cord
- Keyboard and cable
- Quick Reference manual
- System Reference diskette with tutorial
- Technical Directory

Options

Model 80 supports a wide array of optional devices—including many of the peripherals currently available for IBM Personal Computers. What follows is a listing of some of the new options available for Model 80:

- IBM Personal System/2 80387 Math Co-Processor
- IBM 80386 Memory Expansion Option
- IBM 80386 Memory Expansion Kit
- IBM Personal System/2 Mouse
- 44MB, 70MB, 115MB and 314MB Fixed Disk Options
- IBM Personal System/2 5.25" External Diskette Drive
- IBM Personal System/2 Data Migration Facility
- IBM 6157 Streaming Tape Drive
- IBM 3363 Optical Disk Drive
- IBM 300/1200 Internal Modem/A
- IBM Dual Async Adapter/A
- IBM Multi-Protocol Adapter/A
- IBM 3270 Connection
- System 36/38 Workstation Emulation Adapter
- IBM Token-Ring Network Adapter/A
- IBM PC Network Adapter II/A
- IBM PC Network Baseband Adapter/A
- IBM Personal System/2 3117 Adapter/A
- IBM Personal System/2 High Speed Adapter/A

Warranty/Service

Every IBM product is built to meet high standards of quality and reliability. So you can count on Model 80 to perform smoothly year after year.

Model 80 is backed by a one-year limited warranty. And extended service terms are available from IBM and from IBM Authorized Advanced Products Dealers.

With an IBM Maintenance Agreement, you can arrange for on-site service.

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[1] Models 80-111 and 80-311 refer to IBM Personal System/2 Models 8580-111 and 8580-311, respectively.

[2] 8½ x 11-inch, double-spaced typewritten pages.

IBM Personal System/2 Model 80 at a glance

Microprocessor	80386, 16 MHz (Models 80-041 and 80-071) or 20 MHz (Models 80-111 and 80-311) Optional: IBM 80387 Math Co-Processor (16 MHz on Models 80-041 and 80-071; 20 MHz on Models 80-111 and 80-311)
Permanent memory (ROM)	128KB standard
Memory (RAM)	1MB (Model 80-041) or 2MB (Models 80-071, 80-111 and 80-311) of 80-nanosecond memory standard, expandable to 16MB with memory expansion options
Integrated functions	Video Graphics Array (VGA) and display port, serial port, parallel port, pointing device port, keyboard port and diskette controller
Text/graphics support	VGA supports existing color graphics modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)
Display modes	320 x 200 pels x 256 colors—all points addressable 640 x 480 pels x 16 colors—all points addressable 9 x 16 character box—16 colors (text)
Dimensions	approx. 23.5" H x 6.5" W x 19" D (597mm x 166mm x 482mm)
Auxiliary storage	Model 80-041: one 1.44MB 3.5-inch diskette drive and a 44MB fixed disk standard; additional 44MB fixed disk optional Model 80-071: one 1.44MB 3.5-inch diskette drive and a 70MB fixed disk standard; additional 70MB, 115MB or 314MB fixed disk optional Model 80-111: one 1.44MB 3.5-inch diskette drive and a 115MB fixed disk standard; additional 70MB, 115MB or 314MB fixed disk optional Model 80-311: one 1.44MB 3.5-inch diskette drive and a 314MB fixed disk standard; additional 70MB, 115MB or 314MB fixed disk optional Also optional: either a second 1.44MB diskette drive or 5.25" External Diskette Drive; 3363 Optical Disk Drive, 6157 Streaming Tape Drive
System expansion	Seven available expansion slots (three 32-bit, four 16-bit)
Keyboard	101 keys, including 12 function keys, 3 lighted mode indicators; 9-foot coiled cable
Power supply	225-watt worldwide autosensing power supply
Operating systems	IBM PC DOS 3.30, IBM Operating System/2
Supported displays	IBM Personal System/2 Color Displays 8512, 8513 and 8514; IBM Personal System/2 Monochrome Display 8503
Supported printers	IBM Proprinter™ family, IBM Quietwriter® printers, IBM Wheelprinters, IBM Pageprinter, IBM Color Jetprinter
Communications support	IBM Token-Ring Network Adapter/A, IBM PC Network Adapter II/A, IBM PC Network Baseband Adapter/A, IBM 3270 Connection, System 36/38 Workstation Emulation Adapter, IBM Dual Async Adapter/A, IBM Multi-Protocol Adapter/A, IBM 300/1200 Internal Modem/A

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